# **SIEMENS**

## Data sheet

# 3RT2018-2BB44-3MA0



CONTACTOR, AC-3, 7.5KW/400V, 2NO+2NC, DC 24V, 3-POLE, SZ S00 SPRING-LOADED TERMINAL PERMANENT AUX. SWITCH FOR SUVA APPLICATIONS

product brand name		SIRIUS
Product designation		3RT2 contactor
General technical data:		
Insulation voltage		
Rated value	V	690
Degree of pollution		3

Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul> <li>of the contactor typical</li> </ul>		10 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>		5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000
Thermal short-time current restricted to 10 s	Α	128
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q
● acc. to DIN EN 81346-2		Q

Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating voltage	

Operating current         • at AC-1         — at 400 V at ambient temperature 40 °C         A         22           Rated value         — up to 690 V at ambient temperature 40 °C         A         22           Rated value         — up to 690 V at ambient temperature 60 °C         A         20           Rated value         — at 400 V Rated value         A         16           • at AC-3         — at 400 V Rated value         A         16           — at 500 V Rated value         A         124           — at 500 V Rated value         A         8.9           • at AC-3 at 400 V Rated value         A         8.9           • at AC-4 at 400 V Rated value         A         11.5           Operating current with 1 current path         • at DC-1         — at 24 V Rated value         A         20           — at 110 V Rated value         A         2.1         — at 440 V Rated value         A         2.1           — at 220 V Rated value         A         2.0         A         2.0           — at 24 V Rated value         A         2.0         A         2.0           — at 110 V Rated value         A         2.0         A         1.2           — at 220 V Rated value         A         1.6         A         1.6	<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
	Operating current		
Rated value  — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value  • at AC-2 at 400 V Rated value  • at AC-3 — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value — at 890 V Rated value — at 890 V Rated value — at 10-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 440 V Rated value — at 440 V Rated value — at 600 V Rated value — at 12-4 V Rated value — at 220 V Rated value — at 220 V Rated value — at 220 V Rated value — at 110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 24 V Rated value — at 20 V Rated value — at 24 V Rated value — at 20	● at AC-1		
Rated value — up to 690 V at ambient temperature 60 °C Rated value  • at AC-2 at 400 V Rated value  • at AC-2 at 400 V Rated value — at 500 V Rated value — at 500 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value — A 8.9  • at AC-4 at 400 V Rated value — A 11.5  Operating current with 1 current path  • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 600 V Rated value — A 0.6 — at 200 V Rated value — at 600 V Rated value — A 0.6  • at DC-3 — at 24 V Rated value — at 110 V Rated value — at 20 V Rated value — at 24 V Rated value — at 20 V	·	Α	22
Rated value  • at AC-2 at 400 V Rated value  • at AC-3  — at 400 V Rated value  — at 500 V Rated value  — at 690 V Rated value  — at 690 V Rated value  — at 690 V Rated value  — at 10 C-1  — at 24 V Rated value  — at 10 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 440 V Rated value  — at 440 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 3 DC-5  — at 24 V Rated value  — at 110 V Rated value  — at 220 V Rated value  — at 220 V Rated value  — at 220 V Rated value  — at 24 V Rated value  — at 25 V Rated value  — at 26 V Rated value  — at 27 V Rated value  — at 28 V Rated value  — at 29 V Rated value  — at 440 V Rated value  — at 24 V Rated value  — at 20 V		Α	22
■ at AC-3  — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value A 8.9  ■ at AC-4 at 400 V Rated value A 11.5  Operating current with 1 current path  ■ at DC-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 440 V Rated value — at 600 V Rated value — at 600 V Rated value — at 110 V Rated value — at 220 V Rated value — at 110 V Rated value — at 20 V Rated value — at 20 V Rated value — at 20 V Rated value — at 440 V Rated value — at 440 V Rated value — at 440 V Rated value — at 24 V Rated value — at 20 V Rated value — at 440 V Rated value — at 20 V Rated value — at 440 V Rated value — at		A	20
- at 400 V Rated value	• at AC-2 at 400 V Rated value	Α	16
— at 500 V Rated value — at 690 V Rated value A 8.9  • at AC-4 at 400 V Rated value A 11.5  Operating current with 1 current path • at DC-1 — at 24 V Rated value A 2.1 — at 110 V Rated value A 0.8 — at 440 V Rated value A 0.6 — at 600 V Rated value A 0.6 — at 20 V Rated value A 0.6  — at 24 V Rated value A 0.6  — at 24 V Rated value A 0.6  — at 110 V Rated value A 0.6  Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 1.6 — at 440 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20  Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 220 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value	• at AC-3		
— at 690 V Rated value  • at AC-4 at 400 V Rated value  A 11.5  Operating current with 1 current path  • at DC-1  — at 24 V Rated value — at 110 V Rated value A 2.1  — at 220 V Rated value A 0.8  — at 440 V Rated value A 0.6  • at DC-3 at DC-5 — at 24 V Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1  — at 24 V Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1 — at 24 V Rated value A 1.6 — at 440 V Rated value A 1.6 — at 110 V Rated value A 1.6 — at 110 V Rated value A 1.6 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 0.35 — at 24 V Rated value A 0.20  Operating current with 3 current paths in series  • at DC-1 — at 24 V Rated value A 0.35 — at 24 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1 — at 24 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 40 A 40 A 40 A 40 A 40 A 50 A 5	— at 400 V Rated value	Α	16
• at AC-4 at 400 V Rated value	— at 500 V Rated value	Α	12.4
Operating current with 1 current path          • at DC-1 <ul></ul>	— at 690 V Rated value	Α	8.9
■ at DC-1     — at 24 V Rated value     — at 110 V Rated value     — at 220 V Rated value     — at 220 V Rated value     — at 440 V Rated value     — at 600 V Rated value     — at 600 V Rated value     ■ at DC-3     — at 24 V Rated value     — at 110 V Rated value     — at 124 V Rated value     — at 110 V Rated value     — at 220 V Rated value     — at 600 V Rated value     — at 600 V Rated value     — at 600 V Rated value     — at 24 V Rated value     — at 25 V Rated value     — at 26 V Rate	• at AC-4 at 400 V Rated value	Α	11.5
at 24 V Rated value	Operating current with 1 current path		
	• at DC-1		
— at 220 V Rated value — at 440 V Rated value A 0.6 — at 600 V Rated value A 0.6  • at DC-3 at DC-5 — at 24 V Rated value A 0.1  Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 1.6 — at 110 V Rated value A 1.6 — at 440 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.8 — at 400 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20  Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 20 V Rated value A 20 — at 440 V Rated value A 20	— at 24 V Rated value	Α	20
— at 440 V Rated value — at 600 V Rated value A 0.6  • at DC-3 at DC-5 — at 24 V Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1 — at 240 V Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1 — at 24 V Rated value A 12 — at 110 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 0.35  — at 24 V Rated value A 0.20  Operating current with 3 current paths in series  • at DC-1 — at 24 V Rated value A 20  — at 110 V Rated value A 20  — at 20 V Rated value A 20 — at 20 V Rated value A 20 — at 20 V Rated value A 20 — at 110 V Rated value A 20 — at 440 V Rated value A 20 — at 1.3	— at 110 V Rated value	Α	2.1
— at 600 V Rated value  • at DC-3 at DC-5  — at 24 V Rated value A  — at 110 V Rated value A  Operating current with 2 current paths in series  • at DC-1  — at 24 V Rated value A  — at 110 V Rated value A  — at 220 V Rated value A  — at 440 V Rated value A  • at DC-3 at DC-5  — at 110 V Rated value A  — at 20 V Rated value A  — at 110 V Rated value A  — at 24 V Rated value A  — at 20 V Rated	— at 220 V Rated value	Α	0.8
at DC-3 at DC-5     — at 24 V Rated value     — at 110 V Rated value     A     O.1  Operating current with 2 current paths in series      at DC-1     — at 24 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 220 V Rated value     — at 440 V Rated value     — at 600 V Rated value     — at 110 V Rated value     — at 110 V Rated value     A     O.7      at DC-3 at DC-5     — at 110 V Rated value     A     O.35     — at 24 V Rated value     A     O.7  Operating current with 3 current paths in series      at DC-1     — at 24 V Rated value     A     O.20  Operating current with 3 current paths in series      at DC-1     — at 24 V Rated value     A     A     O.3  A 20  Operating current with 3 current paths in series      at DC-1     — at 24 V Rated value     A     A     O.3  A 20  — at 110 V Rated value     A     A     O.3  A 20  — at 220 V Rated value     A     A     O.3  A 20  — at 440 V Rated value     A     A     O.3  A 20  — at 440 V Rated value     A     A     O.3  A 20  — at 440 V Rated value     A     A     O.3  A 20  — at 440 V Rated value     A     A     O.3  A 20  — at 440 V Rated value     A     O.3  A 20  — at 440 V Rated value     A     O.3  A 20  — at 440 V Rated value     A     O.3  A 20  — at 440 V Rated value     A     O.3  A 20  — at 440 V Rated value     A     O.3  A 20  — at 440 V Rated value     A     O.3  A 20  — at 440 V Rated value     A     O.3	— at 440 V Rated value	Α	0.6
at 24 ∨ Rated value A 0.1  Operating current with 2 current paths in series  ■ at DC-1  at 24 ∨ Rated value A 20  at 110 ∨ Rated value A 12  at 220 ∨ Rated value A 1.6  at 440 ∨ Rated value A 0.8  at 600 ∨ Rated value A 0.7  ■ at DC-3 at DC-5  at 110 ∨ Rated value A 0.35  at 24 ∨ Rated value A 20  Operating current with 3 current paths in series  ■ at DC-1  at 24 ∨ Rated value A 20  Operating current with 3 current paths in series  ■ at DC-1  at 24 ∨ Rated value A 20  at 110 ∨ Rated value A 20  at 110 ∨ Rated value A 20  at 220 ∨ Rated value A 20  at 440 ∨ Rated value A 1.3	— at 600 V Rated value	Α	0.6
— at 110 V Rated value A 0.1  Operating current with 2 current paths in series  ● at DC-1  — at 24 V Rated value A 12 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7  ● at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20  Operating current with 3 current paths in series  ● at DC-1 — at 24 V Rated value A 20  Operating current with 3 current paths in series  ● at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 20 — at 440 V Rated value A 1.3	• at DC-3 at DC-5		
Operating current with 2 current paths in series         ● at DC-1         — at 24 V Rated value       A       20         — at 110 V Rated value       A       12         — at 220 V Rated value       A       0.8         — at 600 V Rated value       A       0.7         ● at DC-3 at DC-5       — at 110 V Rated value       A       20         — at 24 V Rated value       A       20         Operating current with 3 current paths in series       ● at DC-1       — at 24 V Rated value       A       20         — at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       20	— at 24 V Rated value	Α	20
• at DC-1  — at 24 V Rated value — at 110 V Rated value A 12 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 1.3	— at 110 V Rated value	Α	0.1
at 24 V Rated value at 110 V Rated value at 220 V Rated value at 220 V Rated value at 440 V Rated value at 600 V Rated value at 600 V Rated value at 110 V Rated value at 24 V Rated value at 25 V Rated value at 26 V Rated value at 27 V Rated value at 28 V Rated value at 29 V Rated value at 20 V Rated value at 440 V Rated value at 1.3	Operating current with 2 current paths in series		
- at 110 V Rated value	• at DC-1		
<ul> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> <li>— at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at 20</li> <li>— at 20 V Rated value</li> <li>— at 20 V Rated value</li> <li>— at 20 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 1.3</li> </ul>	— at 24 V Rated value	Α	20
<ul> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> <li>• at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> <li>• at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at 20</li> <li>— at 20</li> <li>— at 20 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 20</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— at 110 V Rated value	Α	12
<ul> <li>— at 600 V Rated value</li> <li>■ at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> <li>A 20</li> <li>Operating current with 3 current paths in series</li> <li>■ at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 20</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— at 220 V Rated value	Α	1.6
■ at DC-3 at DC-5     — at 110 V Rated value     A 0.35     — at 24 V Rated value     A 20  Operating current with 3 current paths in series     ■ at DC-1     — at 24 V Rated value     A 20     — at 110 V Rated value     A 20     — at 220 V Rated value     A 20     — at 440 V Rated value     A 1.3	— at 440 V Rated value	Α	0.8
<ul> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> <li>A 20</li> </ul> Operating current with 3 current paths in series <ul> <li>• at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— at 600 V Rated value	Α	0.7
<ul> <li>— at 24 V Rated value</li> <li>A 20</li> <li>Operating current with 3 current paths in series</li> <li>• at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	• at DC-3 at DC-5		
Operating current with 3 current paths in series   • at DC-1  — at 24 V Rated value  — at 110 V Rated value  — at 220 V Rated value  — at 440 V Rated value  A 20  — at 440 V Rated value  A 1.3	— at 110 V Rated value	Α	0.35
<ul> <li>at DC-1         <ul> <li>at 24 V Rated value</li> <li>at 110 V Rated value</li> <li>at 220 V Rated value</li> <li>at 240 V Rated value</li> </ul> </li> <li>A 20</li> <li>A 20</li> <li>A 1.3</li> </ul>	— at 24 V Rated value	Α	20
— at 24 V Rated value       A       20         — at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	Operating current with 3 current paths in series		
— at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	• at DC-1		
<ul><li>— at 220 V Rated value</li><li>— at 440 V Rated value</li><li>A 1.3</li></ul>	— at 24 V Rated value	Α	20
— at 440 V Rated value A 1.3	— at 110 V Rated value	Α	20
	— at 220 V Rated value	Α	20
— at 600 V Rated value A 1	— at 440 V Rated value	Α	1.3
at 500 v Mateu value	— at 600 V Rated value	Α	1

• at DC-3 at DC-5		
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	1.5
— at 24 V Rated value	Α	20
— at 440 V Rated value	Α	0.2
— at 600 V Rated value	Α	0.2
Operating power		
• at AC-1 at 400 V Rated value	kW	13
• at AC-2 at 400 V Rated value	kW	7.5
• at AC-4 at 400 V Rated value	kW	5.5
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	7.5
— at 230 V Rated value	kW	7.5
— at 400 V at 60 °C Rated value	kW	13
— at 690 V at 60 °C Rated value	kW	22
— at 690 V Rated value	kW	22
• at AC-3		
— at 230 V Rated value	kW	4
— at 400 V Rated value	kW	7.5
— at 690 V Rated value	kW	7.5
Operating power for ≥ 200000 operating cycles at		
AC-4		
● at 400 V Rated value	kW	2.5
● at 690 V Rated value	kW	3.5
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage for DC	_	
Rated value	V	24
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 1.1
Closing power of the magnet coil for DC	W	4
Holding power of the magnet coil for DC	W	4
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		
— instantaneous contact		2
Number of NO contacts		
• for auxiliary contacts		

<ul> <li>instantaneous contact</li> </ul>		2
Product expansion Auxiliary switch		No
Operating current at AC-15		
• at 230 V Rated value	Α	6
• at 400 V Rated value	Α	3
• at 690 V Rated value	Α	1
Operating current		
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15
• at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	6
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	14
• at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
<ul> <li>• for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	1
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	2
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	3
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	5
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	10
<ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>	metric hp	10
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

Short-circuit:		
Design of the fuse link		

• for short-circuit protection of the main circuit

— with type of assignment 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:

35 A

 $\ensuremath{\mathsf{gL/gG}}$  LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:

20 A

fuse gL/gG: 10 A

mounting position		+/-180° rotation possible on vertical mounting
		surface; can be tilted forward and backward by +/-
		22.5° on vertical mounting surface
Mounting type		screw and snap-on mounting onto 35 mm standard
		mounting rail according to DIN EN 50022
Side-by-side mounting		Yes
Height	mm	69.5
Width	mm	45
Depth	mm	121
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	6

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Type of connectable conductor cross-section	
• for main contacts	

— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
• for AWG conductors for main contacts	2x (20 12)
• for auxiliary contacts	
<ul> <li>single or multi-stranded</li> </ul>	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
• for AWG conductors for auxiliary contacts	2x (20 12)

Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	73
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Mechanical data:		

Size of contactor		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 60
during storage	°C	-55 <b>+</b> 80

# Certificates/ approvals:

#### **Functional Declaration of Test General Product Approval** Safety/Safety Conformity Certificates of Machinery







Type Examination



**Special Test** Certificate

### **Shipping Approval**









GL





**Shipping Approval** 

other





Environmental Confirmations

Confirmation



Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20182BB443MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT20182BB443MA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20182BB443MA0&lang=en



